

DR. INDRANIL MANNA

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[Autonomous College; Affiliated to Vidyasagar University; Grade-A CGPA-3.58(in 4 point scale) by NAAC; College with Potentially Excellent (CPE) by UGC]

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EDUCATIONAL QUALIFICATION

M.Sc. (1st Class), Human Physiology, 1998, Vidyasagar University, West Bengal, India. Special paper- *Ergonomics & Sports Physiology*.

Ph.D., Physiology, 2008, Vidyasagar University, West Bengal, India.

Title of Thesis: “Studies of Morphological, Physiological and Biochemical Parameters in Different Ball Game Players in Transition, Preparatory and Competitive Phases of Training”.

TEACHING EXPERIENCE

Sl.No	To	From	Designation	Department/Institute	Field of work
1	01.12.2000	18.02.02	Guest Lecturer	Department of Physiology, Ramananda College, Bishnupur, West Bengal	Teaching: Physiology to Undergraduate (B. Sc.) Students
2	01.03.02	30.11.02	Junior Scientific Officer	Human Performance Laboratory, Sports Authority of India, New Delhi, India	Teaching: Exercise Physiology to Diploma Students in Sports Coaching.
3	04.03.02	01.02.04	Lecturer	Department of Physiology, Universal College of Medical Sciences, Bhairahawa, Nepal.	Teaching: Physiology MBBS & BDS Students.
4	01.02.04	13.05.09	Assistant Professor	Department of Physiology, Janaki Medical College, Janakpur, Nepal.	Teaching: Physiology MBBS Students.
5	19.08.08	31.12.08	Guest Faculty	Department of Health Sciences, FIT, MRIU, Faridabad, Haryana, India	Teaching: Physiology to MPT, BPT, B. Sc. Nutrition and B. Sc. Sports Sciences.
6	14.05.09	30.03.10	Associate Professor	Department of Physiology, Janaki Medical College, Janakpur, Nepal.	Teaching: Physiology MBBS Students.
7	01.04.10	Till date	Assistant Professor	Department of Physiology, Midnapore College, Midnapore, West Bengal, India.	Teaching: Physiology to Undergraduate (B. Sc.) Students of Honours & General course.

RESEARCH EXPERIENCE

Sl.No.	To	From	Designation	Dept./Institute	Field of work
1	1998	1999	<i>Hon. Research Fellow</i>	Dept. of Human Physiology, Vidyasager University, West Bengal	Ergonomics
2	1999	2000	<i>Research Fellow</i>	Dept. of Exercise Physiology, Sports Authority of India, Bangalore	Exercise Physiology
3	2000	2003	<i>Research Fellow</i>	Dept. of Surgery and Radiology, West Bengal University of Animal and Fishery Sciences, West Bengal	Endocrinology, Reproductive Physiology with Exercise Physiology
4	2003	2008	<i>Doctoral Research Fellow</i>	Department of Human Physiology, Vidyasager University, West Bengal	Exercise Physiology
5	2010	Till date	<i>Postdoctoral Research Fellow</i>	Department of Human Physiology, Vidyasager University, West Bengal	Exercise Physiology & Ergonomics

RESEARCH INTEREST

1. **Exercise Physiology:** Energy, nutrition, training and performance, Oxidative stress and free radical biology.
2. **Endocrinology:** Endocrinology with special reference to Reproduction and Exercise.
3. **Ergonomics:** Workspace evaluation, occupational health and productivity study.

ACADEMIC HONORS AND AWARDS

1. Sports Science Fellowship of Sports Authority of India, Govt. of India from 1999 to 2000.
2. Junior Research Fellowship of Indian Council of Agricultural Research (ICAR), Govt. of India from 2000 to 2002.
3. Research Fellowship of Ministry of Human Resource Development (MHRD), Govt. of India from 2002 to 2003.
4. Dr. Siddhartha Debnath Memorial Oration Award -2015” XXVIIth Annual Conference of the Physiological Society of India (PSI) and the VIth Congress of the Federation of Indian Physiological Societies (FIPS): FIPSPHYSICON-2015. University of Calcutta, W.B., India. 18th -20th December, 2015.

PROJECT(S) COMPLETED

1. Grant-in-Aid of Rs. 1, 84,000/- for Minor Research Project Titled “Studies of Anthropometric, Physical, Cardiorespiratory Fitness and Lipids-Lipoproteins Profile of Tribal and Non-Tribal Children of 10-16 Years Age Group” from University Grants Commission (UGC), duration 2 years (from 01.03.2013 to 28.02.2015).

PROFESSIONAL MEMBERSHIPS

1. Life Member- Physiological Society of India (PSI)
2. Life Member- Indian Society of Ergonomics (ISE)
3. Life Member - Indian Association of Sports Medicine (IASM)
4. Life Member- Indian Science Congress Association (ISCA): L14247
5. Member- The International Society of Exercise and Immunology (ISEI)

TRAINING COURSE/WORKSHOP ATTENDED

1. Training course on “Application of Research Techniques in Reproductive Biomedicines” organized by National Institute of Health and Family Welfare, Ministry of Health and Family Welfare, New Delhi, INDIA. 7th - 18th Jan. 2002.
2. Training course on “Orientation Training on National Service Scheme (NSS)” organized by Training Orientation and Research Centre (TORC), Ramakrishna Mission Ashrama, Narendrapur, Kolkata, West Bengal, India from 22.11.2012 to 28.11.2012 at Vidyasagar University, Midnapore, West Bengal, India.
3. Orientation Programme (OP- 99) for University and College Teachers. Organized by UGC-Academic Staff College, University of Calcutta, Kolkata, West Bengal, India, from 02.02.2013 to 02.03.2013.
4. Refresher Course (RC) in Environmental Studies, for University and College Teachers. Organized by UGC-Academic Staff College, University of Calcutta, Kolkata, West Bengal, India, from 03.03.2014 to 22.03.2014.
5. International Workshop on Kinanthropometry. Level- 1. Organized by Department of Human Physiology with Community Health, Vidyasagar University, Midnapore, West Bengal, India; from 14.05.2014 to 16.05.2014 (3 days).
6. International Workshop on Kinanthropometry. Level- 2. Organized by Department of Human Physiology with Community Health, Vidyasagar University, Midnapore, West Bengal, India; from 09.02.2015 to 15.02.2015 (7 days).
7. Winter School Programme on “Gender, Women and Society: Debates and Developments, for University and College Teachers. Organized by Women’s Studies Centre, Vidyasagar University, Midnapore, West Bengal, India, from 05.01.2016 to 25.01.2016 (21 days).
8. Three Day Workshop & Wet-Lab Training on ‘Cell Biology and Cell Functioning Techniques’. Sponsored by Department of Biotechnology, Govt. of West Bengal. From 16th to 18th March, 2017, Organized by Dept. of Zoology, Midnapore College (Autonomous), Midnapore.

EDITORIAL BOARD MEMBER OF JOURNALS

1. Appointed as Editorial Team Member and Reviewer of *International Greener Journals. Greener Journal of Sport Science and Education* from 2011.
2. Appointed as Editorial Advisory Board Member of *World Research Journal of Physical Education and Sport Science* from August, 2012.
3. Appointed as Senior Editor of *International Journal of Advance Sports Medicine* from December, 2012.

4. Appointed as Editor of *American Journal of Sports Science and Medicine* from January 1, 2013.
5. Appointed as Editor of *International Journal of Anatomy and Physiology* from April 1, 2013.
6. Appointed as Editor of *International Journal of Therapies and Rehabilitation Research* from June 1, 2013.
7. **Act as Chief Guest Editor of Special Issue “Role of Exercise in Prevention of Obesity in Children” of *American Journal of Sports Science and Medicine*. 2014, Vol. 2, No.1.**
8. Appointed as Editorial Board Member of *International Journal of Nutrition and Food Sciences*. Apr 17, 2014.
9. Appointed as Editorial Board Member of *American Journal of Sports Science*. Apr 17, 2014.
10. Appointed as Editorial Board Member of *Science Journal of Public Health*. Apr 18, 2014.
11. **Act as Chief Guest Editor of Special Issue “Growth & Development in Children & Adolescent: Relation to Sports & Physical Activity” of *American Journal of Sports Science and Medicine*. 2014.**
12. Appointed as National Advisory Cum Editorial Board Member of *MR International Journal of Applied Health Sciences* from 2014.
13. Appointed as Chief Guest Editor of Special Issue “Science & Soccer” of *American Journal of Sports Science*. 2014.
14. Appointed as Editor-in-Chief of the Journal “Advances in Applied Physiology” from July, 2015 to till date.
15. **Edited the 1st issue of the journal “Advances in Applied Physiology” in January, 2016.**
16. Appointed as Associate Editor of the Journal “**Advanced Journal of Basic Sciences**” from March, 2016 to till date.
17. Appointed as Editorial Board Member of **Journal of Yoga and Physiotherapy**. Oct, 2016.

MEMBER OF ORGANIZING COMMITTEE OF CONFERENCE

1. Joint Convener of Souvenir & Publication Sub-Committee. *International Conference on Frontiers in Biological Research (ICFBR-2012)*. Vidyasagar University, Midnapore, India. 26th -27th Feb. 2012.
2. **Organizing Secretary**, ‘XXVIIIth Annual Conference of the Physiological Society of India’ PHYSIOCON-2016, held during Nov. 18-20, 2016.

LIST OF PUBLICATIONS:

Journal Publications (ISSN / Impact Factor where ever available)

- 1.
2. **Manna I**, Pradhan D, Ghosh S, Kar SK and Dhara P: A comparative study of foot dimension between adult male and female and evaluation of foot hazards due to using of footwear. *Journal of Physiological Anthropology and Applied Human Sciences*. 2001; **20**: 241 - 246. (JAPAN). [Impact Factor: 0.1]. (ISSN: 1345-3475).
3. **Manna I**, Dhingra M and Khanna GL: Study of anthropometric and physical profiles for the selection of under 14 years players in scheme. *Journal of Sports Traumatology and Allied Sports Sciences*. 2002; **4**: 53-58. (ISSN: 0972 3838).
4. Kar SK, Ghosh S, **Manna I**, Banerjee S and Dhara P: An investigation on hand anthropometry of agricultural workers. *Journal of Human Ecology*. 2003; **14**: 57 - 62.

- (ISSN: 0970-9274).
5. **Manna I**, Jana K and Samanta PK: Effect of intensive exercise-induced testicular gametogenic and steroidogenic disorders in mature male Wistar strain rats: a correlative approach to oxidative stress. *Acta Physiologica Scandinavica*. 2003; **178**: 33 - 40. (SWEDEN). [Impact Factor: 2.9]. (ISSN: 1748-1708).
 6. **Manna I**, Ghosh N, Banerjee S, Ghosh S, Kar SK and Dhara P: Effect of yoga on flexibility and reaction time in adolescent boys and girls. *Indian Journal of Sports Studies*. 2004; **3**: 29-35. (ISSN :).
 7. **Manna I**, Jana K and Samanta PK: Exercise-induced oxidative stress and reproductive dysfunction in male albino rats: Protective role of α - tocopherol succinate. *Canadian Journal of Applied Physiology*. 2004; **29**: 172-185. (CANADA). [Impact Factor: 1.4]. (ISSN: 1066-7814).
 8. **Manna I**, Jana K and Samanta PK: Effect of Different Intensities of Swimming Exercise on Testicular Oxidative Stress and Reproductive Dysfunction in Mature Male Albino Wistar Strain Rats. *Indian Journal of Experimental Biology*. 2004; **42**: 816-822. [Impact Factor: 0.8]. (ISSN: 0019-5189).
 9. Khanna GL, **Manna I** and Dhara PC: Age associated change in plasma lipids and lipoproteins of Indian football players. *Indian Journal of Sports Science & Physical Education*. 2005; **14** (No. 1 & 2), 63-73. [Impact Factor: 0.8]. (ISSN :).
 10. Khanna GL and **Manna I**: Supplementary effect of carbohydrate-electrolyte drink on endurance performance, lactate removal and cardiovascular response of athletes. *Indian Journal of Medical Research*. 2005; **121**: 665-669. [Impact Factor: 1.224]. (ISSN: 0019-5340).
 11. **Manna I**, Khanna GL and Dhara PC: Effect of training on morphological, physiological and biochemical variables of young Indian soccer players. *Journal of Exercise Science and Physiotherapy*. 2006; **2**: 42-51. (ISSN :).
 12. Khanna GL and **Manna I**: Study of Physiological Profile of Indian Boxers. *Journal of Sports Science and Medicine*, 2006; **5** (CSSI), 90-98. (TURKEY). [Impact Factor: 0.815]. (ISSN: 13032968).
 13. Samanta PK, **Manna I** and Jana K: Effect of L-ascorbic acid supplementation on testicular oxidative stress and endocrine disorders in mature male rats exposed to intensive swimming exercise. *Reproductive Medicine and Biology*. 2006; **5** (2): 145-153. (JAPAN). [Impact Factor: 0.7]. (ISSN: 1447-0578).
 14. **Manna I**, Khanna GL and Dhara PC: Effect of training on morphological, physiological and biochemical variables of elite Indian soccer players. *Indian Journal of Physiology and Allied Science*. 2006; **60** (2): 28-40. [Impact Factor: 0.2]. (ISSN: 0367-8350).
 15. Jana K, Samanta PK, **Manna I**, Ghosh P, Singh N, Khetan RP and Ray BR: Protective effect of sodium selenite and zinc sulfate on intensive swimming-induced testicular gamatogenic and steroidogenic disorders in mature male rats. *Applied Physiology Nutrition and Metabolism*. 2008; **33**(5): 903-914. (CANADA). [Impact Factor: 1.000]. (ISSN: 1715-5320).
 16. **Manna I**, Khanna GL and Dhara PC: Training Induced Changes on Physiological and Biochemical Variables of Young Indian Field Hockey Players. *Biology of Sports*. 2009; **26** (1):33-43. (POLAND). [Impact Factor: 0.1]. (ISSN: 0860-021X).
 17. **Manna I** and Khanna GL Effect of Oral Creatine Monohydrate and Maltodextrine Supplementation on Cardiovascular Adaptation and Endurance Performance in Athletes. *Journal of Science and Medicine in Sport*. 2009 (S); **12** (6): 30. (AUSTRALIA). (ISSN: 1440 2440).
 18. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Physiological and Biochemical Variables of Soccer Players of Different Age Groups. *Asian Journal of Sports Medicine*. 2010; **1** (1): 5-22. (IRAN). (ISSN: 2008-000X).

19. **Manna I**, Khanna GL and Dhara PC: Variation in Age and Training on Selected Biochemical Variables of Indian Hockey Players. *Al Ameen Journal of Medical Sciences*. 2010; **3** (2): 128-139. (ISSN: 0974-1143).
20. **Manna I**, Khanna GL and Dhara PC: Age Related Changes in Morphological, Physiological and Biochemical Profiles of Indian Soccer Players. *International Journal of Sports Science and Physical Education*. 2010; **1** (1): 34-42. (ISSN: 09762752).
21. **Manna I**, Khanna GL and Dhara PC: Age Related Changes in Selected Morphological, Physiological and Biochemical Variables of Indian Field Hockey Players. *British Journal of Sports Medicine*. 2010; **44** (S): i20. (UK). [Impact Factor: 2.54]. (ISSN: 0306-3674).
22. **Manna I**, Khanna GL and Dhara PC: Study of Selected Physiological and Health Related Variables of Indian Field Hockey Players of Different Age Groups Following A Pre-Competition Training. *Asian Journal of Exercise and Sport Science*. 2010; **7** (1): 1-11. (KOREA). (ISSN: 1975-2939).
23. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Anthropometric, Physiological and Biochemical Variables of Elite Field Hockey Players. *International Journal of Sports Science and Engineering*. 2010; **4** (4): 229-238 (UK). (ISSN: 1750-9823).
24. Bisai S and **Manna I**: Prevalence of Thinness among Urban Poor Pre-School Children in West Bengal, India. *Sudanese Journal of Public Health*. 2010; **5**(4): 193-198. (SUDAN). (ISSN: 1990-7567).
25. **Manna I**, Khanna GL and Dhara PC: Effects of Training on Body Composition, Aerobic Capacity, Anaerobic Power and Strength of Field Hockey Players of Selected Age Groups. *International Journal of Applied Sports Sciences*. 2011; **23** (1): 198-211. (KOREA). (ISSN: 2233-7946 (Online); 1598-2939(Print)).
26. **Manna I**, Khanna GL and Dhara PC: Morphological, Physiological and Biochemical Characteristics of Indian Field Hockey Players of Four Age Groups. *Al Ameen Journal of Medical Sciences*. 2011; **4** (4): 323-333. (ISSN: 0974-1143).
27. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Morphological, Physiological and Biochemical Variables of Under 19 Years Soccer Players. *Baltic Journal of Health and Physical Activity*. 2011; **3** (4): 237-247. (POLAND). [ISSN: 2080-1297 (Print); 2080-9999 (Online)].
28. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Anthropometric, Physiological and Health Related Variables of Indian Senior Elite Volleyball Players. *Asian Journal of Exercise and Sports Science*. 2011; **8** (1): 64-82. (KOREA). (ISSN: 1975-2939).
29. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Anthropometric, Physiological and Biochemical Variables of Indian U-19 Volleyball Players. *Journal of Human Sport and Exercise*. 2012; **7** (1): 263-274. (SPAIN). (ISSN: 1988-5202).
30. **Manna I** and Khanna GL: Effect of Training on Selected Biochemical Variables of Indian Elite Male Swimmers. *American Journal of Sports Science and Medicine*, 2013; **1**(2): 13-16. (USA). (ISSN:).
31. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Morphological, Physiological and Biochemical Variables of Under 23 Years Soccer Players. *International Journal of Sports Science and Engineering*. 2013; **7**(1): 51-59. (UK). (ISSN: 1750-9823).
32. **Manna I**, Pan SR and Chowdhury M: Studies of Anthropometric, Physical and Cardiorespiratory Fitness of Children of 10-16 Years Age Group. *Indian Journal of Physiology and Allied Sciences*. 2013; **67**(2): 78-89. (ISSN: 0367-8350).
33. **Manna I**, Pan SR and Chowdhury M: Comparative Studies of Anthropometric, Physical and Cardiorespiratory Fitness of Prepubertal, Pubertal and Postpubertal Children. *Indian Journal of Biological Sciences*. 2013; **19**: 17-23. [ISSN: 0972-8503].
34. **Manna I**, Nuri R and Padulo J: Role of Exercise in Prevention of Obesity in Children. *American Journal of Sports Science and Medicine*. 2014; **2** (1): (USA). [ISSN (Print):

- 2333-4592; ISSN (Online): 2333-4606].
35. **Manna I**, Pan SR and Chowdhury M: Anthropometric, Physical, Cardiorespiratory Fitness and Lipids and Lipoproteins Profile of Young Indian Children of 10-16 Years Age Group. *American Journal of Sports Science and Medicine*. 2014; **2** (4): 154-160. (USA). [ISSN (Print): 2333-4592; ISSN (Online): 2333-4606]. (July, 2014).
 36. Jana K, Dutta A, Chakraborty P, **Manna I**, Firdaus S B, Bandyopadhyay D, Chattopadhyay R and Chakravarty B: Alpha-lipoic acid and N-acetylcysteine protects intensive swimming exercise-mediated germ-cell depletion, pro-oxidant generation, and alteration of steroidogenesis in rat testis. *Molecular Reproduction and Development*. 2014; **81** (9): 833–850. (ISSN: 1098-2795). (Impact Factor-2.81). (USA).
 37. Banerjee N, Santra T, Chatterjee S, Chatterjee A, Chatterjee S, Banerjee U, Mukherjee S and **Manna I**: A Study on Pulmonary Function of Adolescent Bengalee Trainee Bharatnatyam Dancers. *American Journal of Sports Science and Medicine*. 2014; **2**(5A): 45-47. (USA). [ISSN (Print): 2333-4592; ISSN (Online): 2333-4606]. (September, 2014).
 38. Chatterjee S, Banerjee N, Santra T, Chatterjee A, Chatterjee S, **Manna I**, Banerjee U and Mukherjee S: Impact of Dancing on Obesity Indices on Bengalee Female Adolescents of Kolkata. *American Journal of Sports Science and Medicine*. 2014; **2**(5A): 40-44. (USA). [ISSN (Print): 2333-4592; ISSN (Online): 2333-4606]. (September, 2014).
 39. **Manna I**: Growth Development and Maturity in Children and Adolescent: Relation to Sports and Physical Activity. *American Journal of Sports Science and Medicine*. 2014, **2**(5A), 48-50. (USA). [ISSN (Print): 2333-4592; ISSN (Online): 2333-4606]. (September, 2014).
 40. **Manna I**, Pan SR and Chowdhury M: Anthropometric, Physical and Cardiorespiratory Fitness of 10-16 years Children. *Al Ameen Journal of Medical Sciences*. 2014; **7**(4):275-283. (ISSN: 0974-1143).
 41. Banerjee N, Chatterjee S, Chatterjee S, Chatterjee A, Bhattacharjee S, Santra T, Saha B, Mukherjee S and **Manna I**. A Study on Impact of Receiving Training on Football and Sprinting on Body Composition and Physical Fitness Status of Adolescent Males. *American Journal of Sports Science*. 2014; **2**(6-1): 19-23. (USA). [ISSN: 2330-8559 (Print); ISSN: 2330-8540 (Online)].
 42. Chatterjee S, Banerjee N, Bhattacharjee S, Santra T, Chatterjee A, Chatterjee S, Saha B, Mukherjee S and **Manna I**. Sports Injuries with Special Reference to Soccer: Causes, Consequences and Prevention Strategies. *American Journal of Sports Science*. 2014; **2**(6-1): 24-30. (USA). [ISSN: 2330-8559 (Print); ISSN: 2330-8540 (Online)].
 43. **Manna I**, Pan SR and Chowdhury M: Studies of Body Composition, Physical and Cardiorespiratory Fitness Profile of Tribal and Non-Tribal Children of 10-16 Years. *Indian Journal of Physiology and Allied Sciences*. 2014; **68** (3):86-99. (ISSN: 0367-8350).
 44. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Anthropometric, Physiological and Biochemical Variables of Indian Under 19 years Field Hockey Players. *Journal of Biology of Exercise*. 2015; **11**(2): 15-31. (Greece). [ISSN: 1791325X]. (Impact Factor: 0.72).
 45. **Manna I**, Pan SR and Chowdhury M: Comparative Studies of Body Composition and Cardiorespiratory Fitness of Tribal and Non-Tribal Children of 10-16 Years Age Group. *Indian Journal of Physiology and Allied Sciences*. 2015; **69** (2):43-52. (ISSN: 0367-8350).
 46. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Body Composition, Physiological and Biochemical Variables of Field Hockey Players. *Advances in Applied Physiology*. 2016; **1**(2): 31-37. (USA). [(ISSN Print: 2471-9692; ISSN Online: 2471-9714)].
 47. **Manna I**: Physiology of Soccer in Indian Context. *Indian Journal of Physiology and Allied Sciences*. 2016; **70** (1):12-28. (ISSN: 0367-8350).

48. **Manna I and Khanna GL:** Supplementary Effect of Creatine on Cardiovascular Adaptation and Endurance Performance in Athletes. *Sports Nutrition and Therapy*. 2016. 1 (1): 1-5. (DOI: 10.4172/2473-6449.1000106). (USA). (ISSN: 2473-6449).
49. **Manna I:** Comparative Studies of Body Composition and Lipid Profiles of Tribal and Non-Tribal Children of 10-16 Years Age Group. *Advanced Journal of Basic & Applied Sciences*, 2017; 1 (1): 31-42.

Conference Presentation & Publication

1. Khanna GL, Majumder P, Mandal Mand **Manna I:** Effect of supplementation of carbohydrate drink on endurance performance and recovery of sports persons. *National seminar on Role of Science in Physical Education and Sports*, at Alagappa University. **Tamilnadu, India**. 1999, **1**.
2. **Manna I** and Dhara P: Evaluation of occupational hazards of barbers and an ergonomic design of barber's chair. *XII Annual Conference of the Physiological Society of India*. **Kolkata, India**. 22nd-23rd Dec.2000, **FC 18**, p A-24.
3. Banerjee S, Ash G, **Manna I**, Kar S and Dhara P: Evaluation of postural stress among brick construction workers. *Proc. 89th Ind. Sc. Cong.* **Lucknow, India**. 2002, **84**, p 79.
4. **Manna I**, Jana K, Debnath D, Ghosh D and Samanta PK: Environmental stress induced oxidative damage and impairment of production performance in domestic ducks. *National Symposium on Challenge before the Animal Husbandry sector in the present Economic Scenario*. **Kolkata, India**. 11th Jan. 2002, p 45.
5. Debnath D, Jana K, **Manna I** and Samanta PK: Oxidative effect of an organophosphorus pesticide quinalphos on male gonad in albino rats. *National Symposium on Challenge before the Animal Husbandry sector in the present Economic Scenario*. **Kolkata, India**. 11th Jan. 2002, p 44.
6. **Manna I**, Jana K, Ghosh D and Samanta PK: Lipid peroxidation and antioxidant enzymes in respiratory distress (RD) induced oxidative stress in erythrocytes and liver of domestic ducks. *XIII Annual Conference of the Physiological Society of India*. **Kolkata, India**. 23rd-24th Feb. 2002, p E-5.
7. **Manna I**, Mutakekar MV, Sharma D and De A: An ergonomic study of workers engaged in jewellery manufacturing in India, *54th National Conference of Indian Association of Occupational Health*, **Kochi, India**. 22nd - 25th Jan, 2004.
8. **Manna I**, Khanna GL and Dhara PC: Plasma Lipids, Lipoproteins of Young Indian Athletes: A Risk Factor For Coronary Heart Disease. *Australian Conference of Science and Medicine in Sport*, **Alice Springs, Australia**. 6-9th Oct. 2004, **24**, p 14.
9. **Manna I**, Khanna GL and Dhara PC: Age related changes in different biochemical parameters in Indian soccer players. *XVI Annual Conference of the Physiological Society of India*. **Midnapore, India**. 16th-18th Dec. 2004, p 64.
10. **Manna I**, Dhara PC and Khanna GL: Effect of training on physiological and biochemical variables of young Indian Hockey players. *International Ergonomics Conference HWWE*, IIT Guwahati, **Guwahati, India**. 10-12th Dec. 2005, p 10.
11. **Manna I**, Khanna GL and Dhara PC: Training Induced Changes on Physiological and Biochemical Variables of Indian young Soccer Players. *6th Sports Science Conference*, University Sians, **Malaysia**, 25-26 July. 2006.
12. **Manna I**, Khanna GL, Dhara PC: Physiological Approach on Quantification of Occupational Stress in Professional Soccer. *Ergo Future 2006*, **Bali - Indonesia**, 28 - 30

- August 2006.
13. **Manna I**, Khanna GL and Dhara PC: Training Induced Changes on Physiological and Biochemical Variables of Indian Soccer Players. *ASICS Conference of Science and Medicine in Sport, Fiji, Australia*, 19th -21st Oct. 2006.
 14. **Manna I**, Khanna GL, Dhara PC: Training Induced Changes on Physiological and Biochemical Characteristics of Indian Field Hockey Players. *New Zealand Sports Medicine and Science Conference 2006*, Wellington, **New Zealand**, 16-18 November 2006.
 15. **Manna I**, Khanna GL, Dhara PC: Effect of training on physical, physiological and biochemical variables of Indian junior volleyball players. *XVIII Annual Conference of the Physiological Society of India. Kolkata*, India. 8th to 10th Dec. 2006; pp-93.
 16. **Manna I**, Khanna GL and Dhara PC: Physiological Status of Indian Field Hockey Players during Pre-Season. *International Sports Science Conference*, Putrajaya, **Malaysia**, 19th to 20th Dec. 2006.
 17. **Manna I**, Khanna GL and Dhara PC: Effect of twelve weeks of training on anthropometric, physiological and biochemical variables of elite Indian hockey players. *International Sports Science Conference*, Putrajaya, **Malaysia**, 19th to 20th Dec. 2006.
 18. **Manna I**, Khanna GL and Dhara PC: Effect of training on physical, physiological and biochemical variables of Indian junior basketball players. *International Conference on Frontier Researches in Integrative Physiology (ICFRIP) 2007*, University of Calcutta, **Kolkata**, India, 8th to 10th Jan. 2007; pp-56.
 19. **Manna I**, Khanna GL and Dhara PC: Effect of training on physiological and biochemical variables of Indian football players of various age groups. *XIXth Annual Conference of the Physiological Society of India*, MERI, Faridabad, India, 6th to 8th Dec. 2007.
 20. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Physiological and Biochemical Variables of Indian Hockey Players of Various Age Groups. *International Ergonomics Conference HWWE 2007*, Central Institute of Agricultural Engineering (CIAE), Bhopal, India, 10th to 12th Dec. 2007.
 21. Khanna GL and **Manna I**: Physiological Support to High Performance Athletes in Indian Scenario. *2008 Joint International Pre-Olympic Conference on Sports Science and Sport Engineering*, Nanjing University of Science and Technology, Nanjing, **China**. 5th -7th August, 2008.
 22. Khanna GL and **Manna I**: Physiological Support to High Performance Sports. *Joint Conference: Asia Pacific Conference on Exercise and Sports Science & 8th International Sports Science Conference 2009*. Kota Bharu, Kelantan, **Malaysia**. 15th – 17th July. 2009.
 23. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Morphological, Physiological and Biochemical Variables of Indian Hockey Players of Various Age Groups. *The 8th Annual Conference for SCSEPF (Society of Chinese Scholars on Exercise Physiology and Fitness)*. Hong Kong Baptist University, **Hong Kong, China**. 12th -14th August 2009.
 24. **Manna I** and Khanna GL Effect of Oral Creatine Monohydrate and Maltodextrine Supplementation on Cardiovascular Adaptation and Endurance Performance in Athletes. *"be active '09" 2009 Australia Conference of Science and Medicine in Sport*. Brisbane, **Australia**. Abstract No. 58, pp-30, 14-17 October 2009.
 25. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Physiological and Biochemical Variables of Indian Senior Volleyball Players. *International Conference on Integrative Physiology: Modern Perspective & Platinum Jubilee Celebration of the Physiological Society of India*. Kolkata, India. November 12th – 14th, 2009.

26. **Manna I**, Khanna GL and Dhara PC: Variability of Age and Training on Body Composition, Aerobic Capacity, Anaerobic Power and Strength of Indian Hockey Players. *HWWE 2009*. Kolkata, India. 17th – 19th December 2009.
27. **Manna I**, Khanna GL and Dhara PC: Variability of Age and Training on Lipids and Lipoproteins Profile of Indian Soccer Players. *97th Indian Science Congress Conference*. Thiruvananthapuram, India. 03-07 January, 2010.
28. Dhara PC, De R, De S, Sengupta P, Pal A, Maity P and **Manna I**: Evaluation of foot hazards of sports persons due to using sports shoes and an approach for sports shoe design. *14th Commonwealth International Sports Science Congress (CISSC 2010)*. Delhi, NCR, India. September 27-30, 2010.
29. **Manna I**, Khanna GL and Dhara PC: Age Related Changes in Selected Morphological, Physiological and Biochemical Variables of Indian Field Hockey Players. *14th Commonwealth International Sports Science Congress (CISSC 2010)*. Delhi, NCR, India. September 27-30, 2010.
30. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Selected Physiological Variables of Indian Soccer Players. *98th Indian Science Congress Conference*. Chennai, India. 03-07 January, 2011.
31. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Anthropometric, Physiological and Biochemical Variables of Indian Under 23 years Field Hockey Players. *International Conference on Molecules to Systems Physiology: 100 Years Journey (ICMSP100)*. University of Calcutta. Kolkata, India. 21st -23rd September, 2011, pp -34.
32. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Physiological Variables of Soccer Players of Selected Age Groups. *5th Asia-Pacific Conference on Exercise and Sports Science (APCESS 2011)*. Shanghai University of Sport, Shanghai, **China**. November 2nd to 4th, 2011.
33. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Physiological Variable of Indian Field Hockey Players of Selected Age Groups. *International Conference on Humanizing Work and Work Environment 2011 (HWWE 2011)*. 13-17 Dec. 2011. IIT Madars, Chennai, India.
34. **Manna I**, Khanna GL and Dhara PC: Effect of 12 Weeks of Training on Physiological Variables of Adolescent Soccer Players. *99th Indian Science Congress Conference*. KIIT University, Bhubaneswar. 3rd – 7th January, 2012.
35. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Morphological, Physiological and Health Related Variables of Yong Soccer Players. *International Conference on Frontiers in Biological Research (ICFBR-2012)*. Vidyasagar University, Midnapore, India. 26th -27th Feb. 2012.
36. **Manna I** and Khanna GL: Effect of Oral Creatine Monohydrate Supplementation on Sports Performance. *National Seminar on Modern Trends in Life Sciences (MTLS-2012)*. Raja N.L.K. Women's College, Midnapore, India. 17th -18th March, 2012.
37. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Lipids and Lipoproteins Profiles of Indian Field Hockey Players of Selected Age Groups. *International Conference on Humanizing Work and Work Environment 2012 (HWWE 2012)*. Dec. 2012. , College of Home Science, GBPUA&T, Pantnagar, India.
38. **Manna I**, Khanna GL and Dhara PC: Effect of Training on Body Composition, Lipids and Lipoproteins Profile of Young Soccer Players. *100th Indian Science Congress Conference*. University of Calcutta, Kolkata, India. 3rd – 7th January, 2013.
39. NAAC Sponsored Two-Day National Seminar on Developing Competitive Strength of Higher Education in Rural and Backward Regions. Midnapore College, Midnapore, W.B., India. 12th -13th Nov. 2013. (**Without paper**).

40. **Manna I**, Pan SR and Chowdhury M: Comparative Studies of Anthropometric, Physical and Cardiorespiratory Fitness of Prepubertal, Pubertal and Postpubertal Children. *International Conference on Humanizing Work and Work Environment 2013 (HWWE 2013)*, Vidyasagar University, Midnapore, West Bengal, India. 4th -6th Dec. 2013.
41. **Manna I**, Pan SR and Chowdhury M: Comparative Studies of Anthropometric and Physical Fitness Profile of Tribal and Non-Tribal Children of 10-16 Years Age Group. International Ergonomics Conference HWWE14. 3rd -5th December, 2014. IIT Guwahati, Guwahati-781039, Assam, India.
42. **Manna I**, Pan SR and Chowdhury M: Comparative Studies of Body Composition and Cardiorespiratory Fitness of Tribal and Non-Tribal Children of 10-16 Years Age Group. XXVIth Annual National Conference on the Physiological Society of India (PHYSICON-2014). 19th -21st December, 2014. Berhampore Girls' College, Murshidabad, W.B., India.
43. **Manna I**: Effect of Hot and Humid Environment on Exercise Performance: Role of Carbohydrate Electrolyte Drink. ICMR Sponsored Two-Day National Seminar on Community Metabolic Disorder and Dietary Therapeutic Approaches. 22nd -23rd Dec, 2014. Raja NL Khan Women's College, Midnapore, India.
44. **Manna I**: Effect of Oral Carbohydrate-Electrolyte Supplement on Sports Performance and Cardiovascular Status of Elite Male Athletes during Exercise and Recovery. UGC Sponsored National Seminar on Current Trends of Research in Human Physiology and Community Health. 27th Mar, 2015. Vidyasagar University, Midnapore, West Bengal, India.
45. **Manna I**: Supplementary effects of Creatine Monohydrate on Sports Performance. UGC-Sponsored National Seminar on 'Knowledge, Attitude & Practice (KAP) on Food Hygiene in Rural Community of West Bengal'. 18-19th September, 2015. Debra Thana Sahid Kshudiram Smriti Mahavidyalaya. West Bengal, India.
46. One Day Seminar on Environmental Awareness. 30th Sept. 2015. MIDnapore College (Autonomous). West Bengal, India. (**Without paper**).
47. **Manna I**: Effect of swimming exercise on testicular oxidative stress and reproductive dysfunction in mature male albino Wistar rats. UGC Sponsored Two Days National Seminar on Perspectives in Animal Sciences: Research and Application. 23rd and 24th November, 2015. Midnapore College (Autonomous), Midnapore, West Bengal, India.
48. **Manna I**: Physiology of Soccer in Indian Context. "Dr. Siddhartha Debnath Memorial Oration 2015" XXVIIth Annual Conference of the Physiological Society of India (PSI) and the VIth Congress of the Federation of Indian Physiological Societies (FIPS): FIPSPHYSICON-2015. 18th -20th December, 2015. University Colleges of Science and Technology (Rajabazar Science College), University of Calcutta. West Bengal, India.
49. **Manna I** and Khanna GL: Supplementary Effect of Creatine on Cardiovascular Adaptation and Endurance Performance in Athletes. UGC-Sponsored Two-Day National Seminar "Trends of Physiological Researchs from Laboratory to Community" March 30th – 31st 2016. Vidyasagar University, Midnapore, India. Pp-35.
50. **Manna I**. Effect of Carbohydrate-Electrolyte Supplementation on Sports Performance and Cardiovascular Status of Elite Athletes During Exercise and Recovery. National Symposium on Bio resource Management (NSBM 2016). April 26th and 27th 2016. Vidyasagar University, Midnapore, India. Pp-.23.
51. **Manna I**: Effect of Training on Physical and Physiological Variables of Soccer Players and Sedentary Control Subjects. 1st Regional Science & Technology Congress, 7th -8th November, 2016. Bankura Christian College, Bankura, West Bengal, India.

52. **Manna I:** Effect Of Hot and Humid Environment On Exercise Performance: Role Of Carbohydrate Electrolyte Supplementation. XXVIIIth Annual Conference of the Physiological Society of India (PHYSIOCON 2016). 18th - 20th November, 2016. Midnapore College (Autonomous), Midnapore, West Bengal, India.
53. UGC Sponsored National Seminar. Role of Microbes for Sustainable Agriculture and Environment (NSAE-2017). 28th January, 2017. Midnapore College (Autonomous), Midnapore, West Bengal, India. (**Without paper**).
54. **Manna I** and Jana K: Intensive Swimming Exercise-Induced Oxidative Stress: Protective Role of Emblica Officinalis. UGC Sponsored National Seminar on Plant and Microbes in Human Welfare and Sustainability (NSPM-2017). 24th February, 2017. Midnapore College (Autonomous), Midnapore, West Bengal, India.

Book and Book Chapter Publication

1. **Manna I**, Dhara PC and Khanna GL: Effect of training on physiological and biochemical variables of young Indian Hockey players. *Proceedings of International Ergonomics Conference HWWE*. 2005; 936-941. Guwahati, India.
2. Khanna GL and **Manna I**: Physiological Support to High Performance Athletes in Indian Scenario. *Proceeding of 1st Joint International Pre-Olympic Conference on Sports Science and Sport Engineering*, 2008; **Vol. II**: Bio-Mechanics and Sports Engineering. 61-71. Nanjing, **P. R. China**. (IISBN: 978-1-84626-032-2).
3. **Manna I**, Khanna GL and Dhara PC: Effect of training on physiological and biochemical variables of Indian football players of various age groups. In: *Physiology for Therapeutic and Rehabilitation Practices Current Approaches*. Edited by Khanna G L. Narosa Publishing House, New Delhi, India, 2008. Pp-116-126. (ISBN: 978-81-7319-920-2).
4. **Manna I**, Khanna GL and Dhara PC: Age Related Changes in Morphological, Physiological and Biochemical Characteristics of Indian Field Hockey Players. *Proceeding of 14th Commonwealth International Sports Science Congress (CISSC 2010)*. 2011; 84-95. Delhi, NCR, India.
5. **Manna I**, Khanna GL and Dhara PC: Variability of Age and Training on Body Composition, Aerobic Capacity, Anaerobic Power and Strength of Indian Hockey Players. *Ergonomics for Everyone*. Edited by Somnath Gangopadhyay, University of Calcutta, Kolkata, India, 2011; vol. 2: 139-145. (ISBN: 978-81-910303-1-0).
6. **Manna I**, Pan SR and Chowdhury M: Comparative Studies of Anthropometric and Physical Fitness Profile of Tribal and Non-Tribal Children of 10-16 Years Age Group. In: D Chakrabarti (Ed). *Proceedings of International Ergonomics Conference HWWE*. 2014; McGraw Hill Education (India) Pvt. Ltd., New Delhi. 689-693. [ISBN: (13): 978-93-392-1970-3].
7. Edited the Proceedings of the XXVIIIth Annual Conference of the Physiological Society of India (PHYSIOCON 2016). 18th - 20th November, 2016. Midnapore College (Autonomous), Midnapore, West Bengal, India.